

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions and listings of claims in the application:

Claims 1-9 (Previously Cancelled).

10. (Currently Amended) A transmitting apparatus for ~~OFDM (orthogonal frequency division multiplexing)~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, said transmitting apparatus characterized by including comprising:

[[a]] first generating means for inputting a first window signal serving as a reference and for generating a clock signal and a second window signal in accordance with the first window signal;[[,]]

[[a]] modulating means for modulating an OFDM signal in accordance with the information by using the clock signal and the second window signal;[[,]]

[[a]] second generating means for generating a predetermined ~~RF (radio frequency)~~ radio frequency ("RF") signal in accordance with the second window signal;[[,]] and

[[a]] frequency conversion means for converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent ~~channel~~ channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

11. (Currently Amended) A transmission method for ~~OFDM~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, said transmission method characterized by including comprising:

an input step of inputting a first window signal serving as a reference;_{[[,]]}

a first generation step of generating a clock signal and a second window signal in accordance with the first window signal input at the input step;_{[[,]]}

a modulation step of modulating an OFDM signal in accordance with the information by using the clock signal and the second window signal;_{[[,]]}

a second generation step of generating a predetermined RF (radio frequency) radio frequency ("RF") signal in accordance with the second window signal;_{[[,]]} and

a frequency conversion step of converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent ~~channel~~ channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

12. (Currently Amended) A provision medium for providing ~~characterized in that it provides~~, to a transmitting apparatus for OFDM orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, a computer readable program for making it run processing ~~including~~ comprising:

an input step of inputting a first window signal serving as a reference;_{[[,]]}

a first generation step of generating a clock signal and a second window signal in accordance with the first window signal input at the input step;_{[[,]]}

a modulation step of modulating an OFDM signal in accordance with the information by using the clock signal and the second window signal;_{[[,]]}

a second generation step of generating a predetermined RF (radio frequency) radio frequency ("RF") signal in accordance with the second window signal;_{[[,]]} and

a frequency conversion step of converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent ~~channel~~ channels becomes a whole multiple of the interval between adjacent carriers within a channel.

13. (Currently Amended) A transmitting apparatus for ~~OFDM~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, said transmitting apparatus ~~characterized by including~~ comprising:

[[a]] first generating means for demodulating an OFDM signal serving as a reference and for generating a window signal and a clock signal;[[,]]

[[a]] modulating means for modulating an OFDM signal in accordance with the information by using the window signal and the clock signal generated by the first generating means;[[,]]

[[a]] second generating means for generating a predetermined RF ~~(radio frequency)~~ radio frequency ("RF") signal in accordance with the window signal;[[,]] and

[[a]] frequency conversion means for converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

14. (Currently Amended) A transmission method for ~~OFDM~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, said transmission method ~~characterized by including~~ comprising:

an input step of inputting an OFDM signal serving as a reference;[[,]]

a first generation step of demodulating the OFDM signal input in the input step and generating a window signal and a clock signal;[[,]]

a modulation step of modulating ~~[[an]]~~ the OFDM signal in accordance with the information by using the window signal and the clock signal;[[,]]

a second generation step of generating a predetermined ~~RF (radio frequency)~~ radio frequency ("RF") signal in accordance with the window signal;[[,]] and

a frequency conversion step of converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

15. (Currently Amended) A provision medium for providing characterized in that it ~~provides~~, to a transmitting apparatus for ~~OFDM~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, a computer readable program for making it run processing ~~including~~ comprising:

an input step of inputting an OFDM signal serving as a reference;[[,]]

a first generation step of demodulating the OFDM signal input in the input step and generating a window signal and a clock signal;[[,]]

a modulation step of modulating ~~[[an]]~~ the OFDM signal in accordance with the information by using the window signal and the clock signal;[[,]]

a second generation step of generating a predetermined ~~RF (radio frequency)~~ radio frequency ("RF") signal in accordance with the window signal;[[,]] and

a frequency conversion step of converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

16. (Currently Amended) A transmitting apparatus for ~~OFDM~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, said transmitting apparatus ~~characterized by including~~ comprising:

[[a]] modulating means for inputting a window signal and a clock signal serving as a reference and modulating an OFDM signal in accordance with the information by using the window signal and the clock signal;[[,]]

[[a]] generating means for generating a predetermined ~~RF (radio frequency)~~ radio frequency ("RF") signal in accordance with the window signal;[[,]] and

[[a]] frequency conversion means for converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

17. (Currently Amended) A transmission method for ~~OFDM~~ orthogonal frequency division multiplexing ("OFDM") modulating and transmitting predetermined information, said transmission method ~~characterized by including~~ comprising:

an input step of inputting a window signal and a clock signal serving as a reference;[[,]]

a modulation step of modulating an OFDM signal in accordance with the information by using the window signal and the clock signal input at the input step; ~~and~~

a generation step of generating a predetermined ~~RF (radio frequency)~~ radio frequency ("RF") signal in accordance with the window signal;[[,]] and

a frequency conversion step of converting frequencies of the OFDM signal based on the RF signal so that a carrier interval between adjacent channels becomes a whole multiple of the interval between carriers adjacent to each other within a channel.

18. (Currently Amended) A provision medium for providing ~~characterized in that~~
~~it provides~~, to a transmitting apparatus for ~~OFDM~~ orthogonal frequency division
multiplexing ("OFDM") modulating and transmitting predetermined information, a
computer readable program for making it run processing ~~including~~ comprising:
an input step of inputting a window signal and a clock signal serving as a
reference;_i[[,]]
a modulation step of modulating an OFDM signal in accordance with the
information by using the window signal and the clock signal input at the input step;_i[[,]]
a generation step of generating a predetermined ~~RF (radio frequency)~~ radio
frequency ("RF") signal in accordance with the window signal;_i[[,]] and
a frequency conversion step of converting frequencies of the OFDM signal based
on the RF signal so that a carrier interval between adjacent channels becomes a whole
multiple of the interval between carriers adjacent to each other within a channel.